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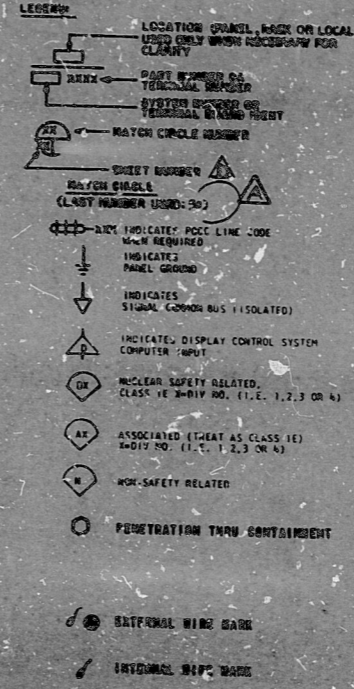
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- HIERARCHY DOCUMENTS**
- 021-1010 NUCLEAR REGENER PG10
 - 031-1010 LEAK DETECTION SYSTEM AD.
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-070)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-080)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-090)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-100)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-110)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-120)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-130)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-140)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-150)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-160)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-170)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-180)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-190)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-200)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-210)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-220)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-230)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-240)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-250)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-260)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-270)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-280)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-290)
 - 031-1010 LEAK DETECTION SYSTEM ELEMENTARY DIAGRAM (E31A) (D-300-300)



- NOTES**
- WIRE AND CABLING SHALL BE PER REF NO. 10.
 - RELAY SHALL BE ENCLOSED IN A METAL CONTAINER AND WIRE SHALL BE RUN IN CONDUIT TO AN ENCLOSED TERMINAL BOX WITHIN PANEL.
 - WIRE HAS ONLY 4 LITMATIC SWITCHES.
 - SWITCH IS NOT PART OF LIMITORQUE VALVE CONTROL.
 - SEE SH.3, FIG. 6 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 7 FOR POWER DISTRIBUTION.
 - INITIAL PANEL PROCESS INSTRUMENTATION SIGNAL LEADS SHALL BE BUNDLED & ROUTED SEPARATELY FROM AC & DC POWER WIRING.
 - SEE SH.3, FIG. 8 FOR POWER DISTRIBUTION.
 - SWITCH & LIGHT CONTACTS SHALL BE ENCLOSED IN A METAL CONTAINER & WIRE SHALL BE RUN IN CONDUIT TO AN ENCLOSED TERMINAL BOX WITHIN PANEL UNLESS 6 INCH SEPARATION CAN BE MAINTAINED BETWEEN COMPARTMENTS WITH DIFFERENT DISCREETIONAL PROTECTION LEVELS.
 - SEE REF. 20 FOR AC MO-VALVE VOLTAGE MONITOR CIRCUITS.
 - SHIELDED TWISTED PAIR CABLES ARE SUPPLIED AS PART OF PGCC WIRING IN ASSOCIATION WITH THE SHIELD SHOULD BE GROUND AT THE REMOTE ELECTRONICS CABINET.
 - UNLESS OTHERWISE SPECIFIED, THE FOLLOWING REFERENCE DESIGNATIONS SHOWN ON THIS ELEMENTARY ARE PREFIXED WITH A 1E31A:
 - SEE SH.3, FIG. 2 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 3 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 4 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 5 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 6 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 7 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 8 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 9 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 10 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 11 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 12 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 13 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 14 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 15 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 16 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 17 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 18 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 19 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 20 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 21 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 22 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 23 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 24 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 25 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 26 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 27 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 28 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 29 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 30 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 31 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 32 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 33 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 34 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 35 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 36 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 37 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 38 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 39 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 40 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 41 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 42 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 43 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 44 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 45 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 46 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 47 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 48 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 49 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 50 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 51 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 52 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 53 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 54 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 55 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 56 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 57 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 58 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 59 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 60 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 61 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 62 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 63 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 64 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 65 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 66 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 67 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 68 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 69 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 70 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 71 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 72 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 73 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 74 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 75 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 76 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 77 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 78 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 79 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 80 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 81 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 82 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 83 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 84 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 85 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 86 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 87 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 88 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 89 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 90 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 91 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 92 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 93 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 94 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 95 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 96 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 97 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 98 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 99 FOR POWER DISTRIBUTION.
 - SEE SH.3, FIG. 100 FOR POWER DISTRIBUTION.

VALVE CONTROL TABLE

VALVE NO.	DESCRIPTION	STATUS	OPERATION	ISOLATION	OTHER	TEST POINT	WIRING
101-001	NO. 1 STEAM SUPPLY	51	X	X			24
101-002	NO. 2 STEAM SUPPLY	52	X	X			15
101-003	NO. 3 STEAM SUPPLY	53	X	X			17
101-004	NO. 4 STEAM SUPPLY	54	X	X			15
101-005	NO. 5 STEAM SUPPLY	55	X	X			14
101-006	NO. 6 STEAM SUPPLY	56	X	X			13
101-007	NO. 7 STEAM SUPPLY	57	X	X			16
101-008	NO. 8 STEAM SUPPLY	58	X	X			16
101-009	NO. 9 STEAM SUPPLY	59	X	X			7
101-010	NO. 10 STEAM SUPPLY	60	X	X			7
101-011	NO. 11 STEAM SUPPLY	61	X	X			7
101-012	NO. 12 STEAM SUPPLY	62	X	X			7
101-013	NO. 13 STEAM SUPPLY	63	X	X			7
101-014	NO. 14 STEAM SUPPLY	64	X	X			7
101-015	NO. 15 STEAM SUPPLY	65	X	X			7
101-016	NO. 16 STEAM SUPPLY	66	X	X			7
101-017	NO. 17 STEAM SUPPLY	67	X	X			7
101-018	NO. 18 STEAM SUPPLY	68	X	X			7
101-019	NO. 19 STEAM SUPPLY	69	X	X			7
101-020	NO. 20 STEAM SUPPLY	70	X	X			7
101-021	NO. 21 STEAM SUPPLY	71	X	X			7
101-022	NO. 22 STEAM SUPPLY	72	X	X			7
101-023	NO. 23 STEAM SUPPLY	73	X	X			7
101-024	NO. 24 STEAM SUPPLY	74	X	X			7
101-025	NO. 25 STEAM SUPPLY	75	X	X			7
101-026	NO. 26 STEAM SUPPLY	76	X	X			7
101-027	NO. 27 STEAM SUPPLY	77	X	X			7
101-028	NO. 28 STEAM SUPPLY	78	X	X			7
101-029	NO. 29 STEAM SUPPLY	79	X	X			7
101-030	NO. 30 STEAM SUPPLY	80	X	X			7
101-031	NO. 31 STEAM SUPPLY	81	X	X			7
101-032	NO. 32 STEAM SUPPLY	82	X	X			7
101-033	NO. 33 STEAM SUPPLY	83	X	X			7
101-034	NO. 34 STEAM SUPPLY	84	X	X			7
101-035	NO. 35 STEAM SUPPLY	85	X	X			7
101-036	NO. 36 STEAM SUPPLY	86	X	X			7
101-037	NO. 37 STEAM SUPPLY	87	X	X			7
101-038	NO. 38 STEAM SUPPLY	88	X	X			7
101-039	NO. 39 STEAM SUPPLY	89	X	X			7
101-040	NO. 40 STEAM SUPPLY	90	X	X			7
101-041	NO. 41 STEAM SUPPLY	91	X	X			7
101-042	NO. 42 STEAM SUPPLY	92	X	X			7
101-043	NO. 43 STEAM SUPPLY	93	X	X			7
101-044	NO. 44 STEAM SUPPLY	94	X	X			7
101-045	NO. 45 STEAM SUPPLY	95	X	X			7
101-046	NO. 46 STEAM SUPPLY	96	X	X			7
101-047	NO. 47 STEAM SUPPLY	97	X	X			7
101-048	NO. 48 STEAM SUPPLY	98	X	X			7
101-049	NO. 49 STEAM SUPPLY	99	X	X			7
101-050	NO. 50 STEAM SUPPLY	100	X	X			7

PUMP VALVE CONTROL TABLE

PUMP NO.	DESCRIPTION	STATUS	OPERATION	ISOLATION	OTHER	TEST POINT	WIRING
101-051	NO. 1 STEAM SUPPLY	51	X	X			24
101-052	NO. 2 STEAM SUPPLY	52	X	X			15
101-053	NO. 3 STEAM SUPPLY	53	X	X			17
101-054	NO. 4 STEAM SUPPLY	54	X	X			15
101-055	NO. 5 STEAM SUPPLY	55	X	X			14
101-056	NO. 6 STEAM SUPPLY	56	X	X			13
101-057	NO. 7 STEAM SUPPLY	57	X	X			16
101-058	NO. 8 STEAM SUPPLY	58	X	X			16
101-059	NO. 9 STEAM SUPPLY	59	X	X			7
101-060	NO. 10 STEAM SUPPLY	60	X	X			7
101-061	NO. 11 STEAM SUPPLY	61	X	X			7
101-062	NO. 12 STEAM SUPPLY	62	X	X			7
101-063	NO. 13 STEAM SUPPLY	63	X	X			7
101-064	NO. 14 STEAM SUPPLY	64	X	X			7
101-065	NO. 15 STEAM SUPPLY	65	X	X			7
101-066	NO. 16 STEAM SUPPLY	66	X	X			7
101-067	NO. 17 STEAM SUPPLY	67	X	X			7
101-068	NO. 18 STEAM SUPPLY	68	X	X			7
101-069	NO. 19 STEAM SUPPLY	69	X	X			7
101-070	NO. 20 STEAM SUPPLY	70	X	X			7
101-071	NO. 21 STEAM SUPPLY	71	X	X			7
101-072	NO. 22 STEAM SUPPLY	72	X	X			7
101-073	NO. 23 STEAM SUPPLY	73	X	X			7
101-074	NO. 24 STEAM SUPPLY	74	X	X			7
101-075	NO. 25 STEAM SUPPLY	75	X	X			7
101-076	NO. 26 STEAM SUPPLY	76	X	X			7
101-077	NO. 27 STEAM SUPPLY	77	X	X			7
101-078	NO. 28 STEAM SUPPLY	78	X	X			7
101-079	NO. 29 STEAM SUPPLY	79	X	X			7
101-080	NO. 30 STEAM SUPPLY	80	X	X			7
101-081	NO. 31 STEAM SUPPLY	81	X	X			7
101-082	NO. 32 STEAM SUPPLY	82	X	X			7
101-083	NO. 33 STEAM SUPPLY	83	X	X			7
101-084	NO. 34 STEAM SUPPLY	84	X	X			7
101-085	NO. 35 STEAM SUPPLY	85	X	X			7
101-086	NO. 36 STEAM SUPPLY	86	X	X			7
101-087	NO. 37 STEAM SUPPLY	87	X	X			7
101-088	NO. 38 STEAM SUPPLY	88	X	X			7
101-089	NO. 39 STEAM SUPPLY	89	X	X			7
101-090	NO. 40 STEAM SUPPLY	90	X	X			7
101-091	NO. 41 STEAM SUPPLY	91	X	X			7
101-092	NO. 42 STEAM SUPPLY	92	X	X			7
101-093	NO. 43 STEAM SUPPLY	93	X	X			7
101-094	NO. 44 STEAM SUPPLY	94	X	X			7
101-095	NO. 45 STEAM SUPPLY	95	X	X			7
101-096	NO. 46 STEAM SUPPLY	96	X	X			7
101-097	NO. 47 STEAM SUPPLY	97	X	X			7
101-098	NO. 48 STEAM SUPPLY	98	X	X			7
101-099	NO. 49 STEAM SUPPLY	99	X	X			7
101-100	NO. 50 STEAM SUPPLY	100	X	X			7

P.R.C. APERTURE CARD

THE CLEVELAND ELECTRIC LIGHTING CO.

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION			
2	REVISIONS ADDED			

APPROVED FOR CONSTRUCTION

REVISIONS ADDED

DATE

BY

CHKD.

RIDS

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